

Appl. No. 09/901,894
Armat. dated September 18, 2003
Reply to Office Action of April 18, 2003

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A data acquisition system for collecting oil/gas production data from [at least one] a plurality of geographically separated oil/gas production [well] wells and for monitoring and controlling oil/gas well production and pumping equipment at individual oil/gas production wells, the data acquisition system comprising:

a data collection and control device adapted for and operatively connected to individual oil/gas well production and pumping equipment for [obtaining] collecting production data from [a] individual oil/gas production wells [well], for collecting operating data of the oil/gas well production and pumping equipment and for controlling the individual oil/gas well production and pumping equipment;

wherein the data collection and control device includes a processor for receiving the production and operating data of the oil/gas well production and pumping equipment, for providing instructions to the oil/gas well production and pumping equipment and for reporting the production and operating data to a computer via a wired or wireless interface.

2. (currently amended) A data acquisition system as in claim 1 wherein the computer is any one of or a combination of a central computer in operative connection with a plurality of data collection and control devices each connected to respective oil/gas production wells or a portable computer adapted for operative connection to a data collection and control device at an individual oil/gas well.

3. (currently amended) A data acquisition system as in claim 1 wherein the data collection and control device further includes [a central processor operatively connected to an operator input system and a display system, the] an operator input system for receiving commands from an operator and [the] a display system for displaying processed or unprocessed production data and operating parameters of the pumping system.

4. (currently amended) A data acquisition system as in claim 1 wherein the data collection and control device further includes any one of or a combination of a digital or analog input/output device operatively connected to the [central] processor and wherein the digital and/or analog output devices are for operative connection to one or more production sensors or controls at an individual oil/gas well.

5. (currently amended) A data acquisition system as in claim [3] 2 wherein the data collection and control device further includes data storage memory operatively connected to the [central] processor for storing production and operating data prior to uploading to the central or portable computer.

6. (currently amended) A data acquisition system as in claim 2 wherein the computer includes software having a central management module for managing the collection, analysis and reporting of production data from [the] data collection and control devices [device].

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7. (currently amended) A data acquisition system as in claim 6 wherein the central management module is operatively connected to a communication interface for sending and receiving data to and from the data collection and control device.

8. (currently amended) A data acquisition system as in claim 7 wherein the central management module includes a control module for sending control instructions to the [production controls through the] data collection and control device.

9. (currently amended) A data acquisition system as in claim 2 wherein the data collection and control device includes [a central processor operatively connected to an operator input system and a display system, the] an operator input system for receiving commands from an operator and [the] a display system for displaying processed or unprocessed production data and operating parameters of the pumping system.

10. (currently amended) A data acquisition system as in claim 9 wherein the data collection and control device includes any one of or a combination of a digital or analog input/output device operatively connected to the [central] processor and wherein the digital and/or analog output devices are for operative connection to one or more production sensors or controls at an individual oil/gas well.

11. (currently amended) A data acquisition system as in claim 10 wherein the data collection and control device includes data storage memory operatively connected to the [central] processor for storing production data prior to uploading to the central or portable computer.

12. (currently amended) A data acquisition system as in claim 11 wherein the computer includes software having a central management module for managing the collection, analysis and reporting of production data from [the] data collection device devices.

13. (currently amended) A data acquisition system as in claim 12 wherein the central management module is operatively connected to a communication interface for sending and receiving data to and from the data collection and control device.

14. (currently amended) A data acquisition system as in claim 13 wherein the central management module includes a control module for sending control instructions to the production controls through the data collection and control device.

15. (currently amended) A data acquisition system for collecting data from at least one oil/gas production well comprising:

a data collection and control device adapted for and operatively connected to oil/gas well production equipment for obtaining production data from [a] an oil/gas production well and for providing control instructions to the production equipment;

a [central] computer operatively connected to the data collection and control device for receiving production data from the data collection and control device and for sending control instructions to the production equipment via a wired or wireless interface wherein the central computer includes:

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a [central] management module for managing the collection, analysis and reporting of oil/gas well production data from the data collection and control device;

[a] an oil/gas well production data database;

a wired or wireless interface;

a reporting module for formatting reports from the oil/gas well production data database; and,

a graphical display module for displaying production data from the an oil/gas well production data database.

16. (currently amended) A method of collecting data from [a] an oil/gas production well comprising the steps of:

a) operatively connecting a data collection and control device to oil/gas well production equipment at a well; and,

b) uploading production data from the data collection and control device via a wired or wireless link to a [central] computer.

17. (currently amended) A method as in claim 16 further comprising the step of sending a control instruction to the oil/gas well production equipment from the central or portable computer.

18. (new) A data acquisition system as in claim 1 wherein the processor automatically adjusts the oil/gas well production and pumping equipment in response to oil/gas well production and operating data from an individual oil/gas well.
